

10596053_STN

=> d his

(FILE 'HOME' ENTERED AT 13:03:33 ON 11 JAN 2008)

FILE 'REGISTRY' ENTERED AT 13:03:50 ON 11 JAN 2008

L1 1 S 2-PENTANOL/CN
L2 1238 S 2-HEPTANOL
L3 1 S 2-HEPTANOL/CN
L4 1247 S 2-OCTANOL
L5 1 S 2-OCTANOL/CN
L6 1 S 2-NONANOL/CN
L7 1 S 1-PENTEN-3-OL/CN
L8 1 S 1-HEXEN-3-OL/CN
L9 1 S 3-HEXANOL/CN
L10 1 S 3-HEPTANOL/CN
L11 1 S 3-OCTANOL/CN
L12 0 S PENTAN-2-ONE/CN
L13 1 S 2-PENTANONE/CN
L14 0 S 2 HEPTANONE/CN
L15 1 S 2-HEPTANONE/CN
L16 1 S 2-OCTANONE/CN
L17 1 S 2-NONANONE/CN
L18 1 S 1-PENTEN-3-ONE/CN
L19 1 S 1-HEXEN-3-ONE/CN
L20 0 S 1-HEPTAN-3-ONE/CN
L21 0 S 1-OCTAN-3-ONE/CN
L22 0 S HEPTAN-3-ONE/CN
L23 0 S OCTAN-3-ONE/CN
L24 1 S 3-HEPTANONE/CN
L25 1 S 3-OCTANONE/CN

FILE 'CASREACT' ENTERED AT 13:16:12 ON 11 JAN 2008

L26 255 S L1
L27 710 S L13
L28 0 S L26 (W) L27
L29 107 S L26 AND L27
L30 287 S GLUCONOBACTER? OR ACETOBACT?
L31 0 S 3-HEXANONE/CN
L32 461 S 3-HEXANONE
L33 107 S L1 AND L13
L34 94 S L3 AND L15
L35 374 S L5 AND L16
L36 25 S L6 AND L17
L37 4 S L8 AND L19
L38 44 S L9 AND L32
L39 38 S L10 AND L24
L40 0 S L 11 AND L25
L41 49 S L11 AND L25

10596053_STN

10596053_STN

L42 598 S L33 OR L34 OR L35 OR L36 OR L37 OR L38 OR L39 OR L41
L43 2 S L30 AND L42

FILE 'CA, USPATFULL, PCTFULL, BIOSIS, MEDLINE, AGRICOLA' ENTERED AT
13:26:16 ON 11 JAN 2008

L44 10566 S L1 OR L3 OR L5 OR L6 OR L7 OR L8 OR L9 OR L10 OR L11
L45 3016 S L1
L46 194245 S ?PENTANOL OR ?HEPTANOL OR ?HEXANOL OR ?HEPTANOL OR
?OCTANOL O
L47 12899 S GLUCONOBACTER? OR ACETOBACT?
L48 3608480 S MICROORG?
L49 182 S L46 AND L47
L50 141 S L48 AND L49
L51 9161 S L46 AND L48
L52 15 S L51 AND 12884
L53 15 DUP REM L52 (0 DUPLICATES REMOVED)

=>

10596053_STN

10596053_STN

L16 ANSWER 7 OF 16 CA COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 120:321530 CA <<LOGINID::20080107>>
TITLE: Oxidation of alcohols with immobilized
microorganism
INVENTOR(S): Oda, Shinobu
PATENT ASSIGNEE(S): Kansai Paint Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 06000090	A	19940111	JP 1992-186024	19920619

PRIORITY APPLN. INFO.: JP 1992-186024
19920619

OTHER SOURCE(S): CASREACT 120:321530

AB Alcs. dissolved in water-insol. or immiscible organic solvents are oxidized with microorganism (which are capable of oxidizing primary and/or secondary OH) immobilized on hydrophilic supports in the presence of aqueous media. Rhodococcus equi JCM 3730 was inoculated on an agar plate containing polypeptone, yeast estimate, and MgSO₄ and still-cultured with n-hexadecane solution of 2-octanol at 30° for 7 days to manufacture 20.7 g 2-octanone/L, vs. <0.1 g/L, when shake-cultured in a similar liquid medium.

10596053_STN

10596053_STN

L16 ANSWER 8 OF 16 CA COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 115:69878 CA <<LOGINID::20080107>>
TITLE: Asymmetric reduction of ketones with enzymes
from acetic acid bacteria
AUTHOR(S): Adlercreutz, Patrick
CORPORATE SOURCE: Chem. Cent., Univ. Lund, Lund, S-221 00, Swed.
SOURCE: Biotechnology Letters (1991), 13(4), 229-34
CODEN: BILED3; ISSN: 0141-5492
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 115:69878
AB Six strains of acetic acid bacteria were evaluated with respect to
their capability to catalyze the stereoselective reduction of ketones.
The cells were permeabilized before the bioconversions. The best
strains were Gluconobacter oxydans DSM 50049 and Acetobacter
aceti DSM 2002. Using either of these 2 strains it was possible to
reduce all 12 ketones to (S)-alcs. with an enantiomeric
excess of $\geq 94\%$. The highest level of enzymic activity was found in
A. aceti DSM 2002.

10596053_STN

10596053_STN

L16 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1991:469878 CAPLUS <<LOGINID::20080107>>

DOCUMENT NUMBER: 115:69878

TITLE: Asymmetric reduction of ketones with enzymes
from acetic acid bacteria

AUTHOR(S): Adlercreutz, Patrick

CORPORATE SOURCE: Chem. Cent., Univ. Lund, Lund, S-221 00, Swed.

SOURCE: Biotechnology Letters (1991), 13(4), 229-34
CODEN: BILED3; ISSN: 0141-5492

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 115:69878

AB Six strains of acetic acid bacteria were evaluated with respect to
their

capability to catalyze the stereoselective reduction of ketones.

The cells were permeabilized before the bioconversions. The best
strains

were Gluconobacter oxydans DSM 50049 and Acetobacter

aceti DSM 2002. Using either of these 2 strains it was possible to
reduce

all 12 ketones to (S)-alcs. with an enantiomeric

excess of $\geq 94\%$. The highest level of enzymic activity was found in
A. aceti DSM 2002.

10596053_STN